

G-4514-4G FAQ

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Q01 : I want to use the module to receive the specified message after the DO output, and confirm by DI, if the DI has a short circuit, it will return a successful SMS, and otherwise it will return the failed SMS. In addition, the phone number transmitted must be approved by me.

A01 :

The application flow chart is as follows:



Filter phone number:

```

for(i=1; i<argc; i++)
{
    if(argv[i][0]=='-' && argv[i][2]=='p')
    {
        switch(argv[i][1])
        {
            case '0':
                sprintf(sendNumber0, "%s",argv[i]+3);
                printCom1("[Phone Number0=%s]\r\n",sendNumber0);
                break;
            case '1':
                sprintf(sendNumber1, "%s",argv[i]+3);
                printCom1("[Phone Number1=%s]\r\n",sendNumber1);
                break;
            case '2':
                sprintf(sendNumber2, "%s",argv[i]+3);
                printCom1("[Phone Number2=%s]\r\n",sendNumber2);
                break;
        }
    }
}

```

DO can be executed through the X305IO_Write_One_DO function:

```
if ( (ptr = strstr(report_data, "DO;")) != NULL )
{
    result = sscanf(ptr, "DO;%d;%s,", &do_id, &action_string);
    printCom1("DO ID=%d\r\n", do_id);
    printCom1("ON or OFF: %s\r\n", action_string);
    if (do_id == 0 && strcmp(action_string, "ON")==0)
    {
        printCom1("DO 0 ON\r\n");
        X305IO_Write_One_DO(0, 1);
    }
}
```

DI can be checked by X305IO_Read_One_DI:

```
//Return 0 => close to GND
if (X305IO_Read_One_DI(0) == 0)
{
    //printCom1("DI0 ==> ON\r\n");
    diTriCount++;
}
```

Send a successful SMS:

```
strcpy(SendMsg.phoneNumber, RecMsg.phoneNumber);
SendMsg.mode = GSM_7BIT;
sprintf(SendMsg.msg, "DO;0;OK");
SendMsg.dataLen = strlen(SendMsg.msg);
GM_SMS_SendMsg(SendMsg);
```

Q02 : I already have an executable running on the G-4513. Now I want to use the G-4514. Can this executable be transferred directly to the G-4514 use?

A02 : G-4514 need using dedicated Library and recompiler.

The following table is the Library used by G-4513 and G-4514 respectively.

Machine	G-4513	G-4514
Library	GSM_U2.lib	GSM.lib
Using header	GSM_U2.h	GSM.h

✂Here GSM.LIB is not G-4500-2G GSM.lib.

GSM.LIB download link:

<http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4514-4g/software/lib/GSM/>

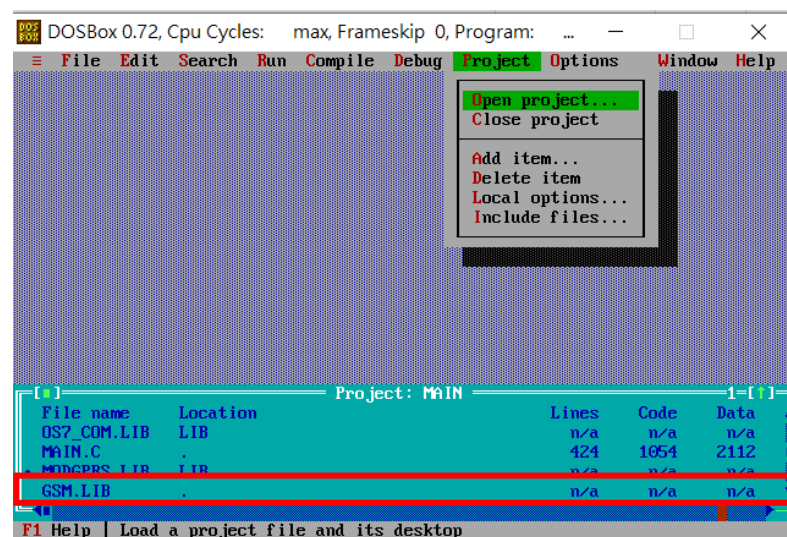
GSM.LIB Demo download link:

<http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4514-4g/software/demo/>

Modify the name of the include header (GSM_U2.h is modified to GSM.h):

```
//#include "lib\GSM_U2.h"
#include "lib\GSM.h"
```

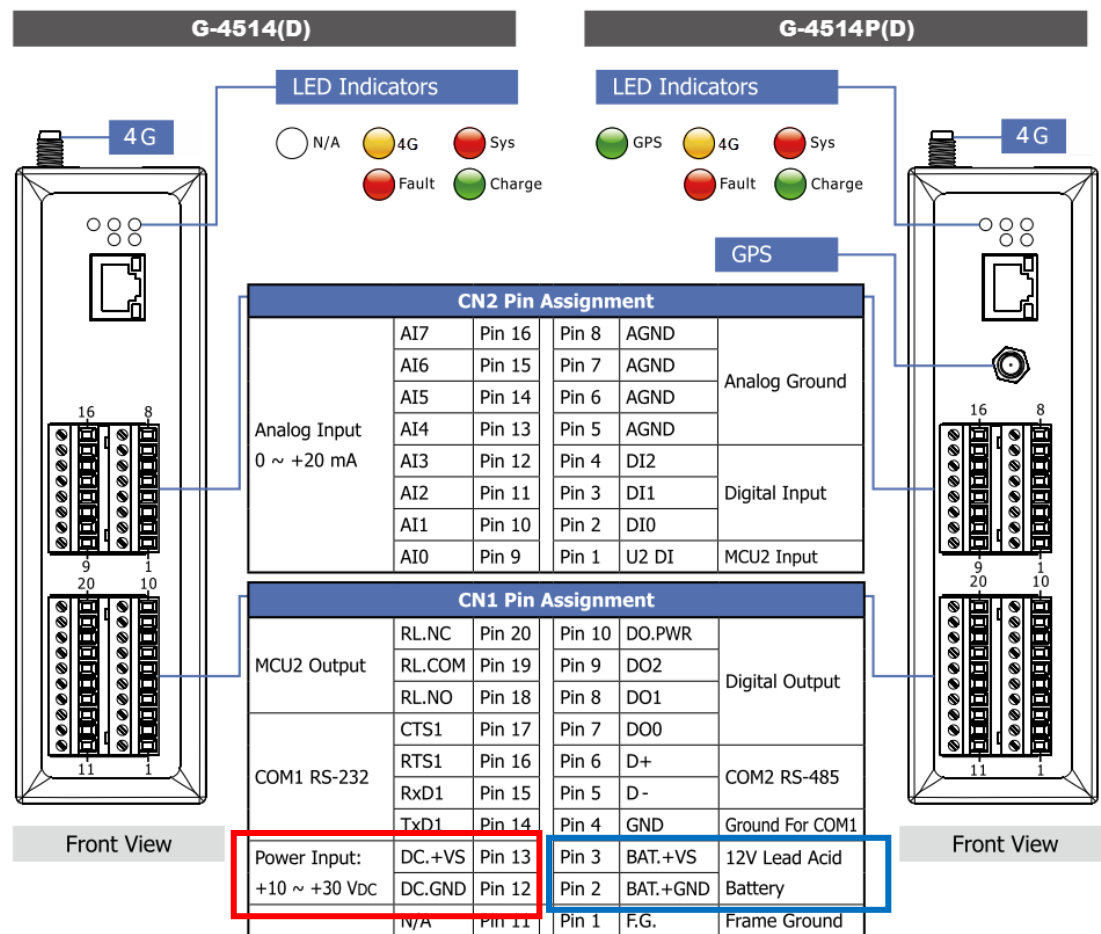
Reassign LIB and compile the program:



Q03 : I connected the power supply to the G-4514. Why does the G-4514 shut down immediately after it starts, the power light goes out?

A03 : Please follow the steps below to confirm.

Step 1: Please confirm that the input terminal is the power terminal (at the red frame line)



The blue frame line is the battery end and only accepts 12V voltage input.

Step 2: Please confirm the input voltage

Please refer to the pin assignment and input the compliance voltage. Do not exceed the acceptable voltage range.

Step 3: Confirm the input power terminal, confirm that the input voltage is within the acceptance range, raise the voltage to 24V, and turn off the low voltage protection.

Due to the low voltage protection, when the voltage is lower than a certain voltage, the protection mechanism will be activated. Please raise the voltage and turn off the function first, then reduce to the original voltage use.

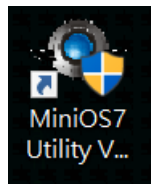
Power Saving Demo download link :

http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4514-4g/software/demo/basic/power_saving/basic_demo/

MiniOS7 Utility download link :

http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

Via MiniOS7 Utility, then select LIBTEST.EXE to burn to G-4514-4G



MiniOS7 Utility Version 4.4 (2018/12/03)

File Connection Command Configuration Tools About

Look in: C:\

Name	Size	Type	Modified	Attr
7188xw.exe	47616	exe	2015/9/1 下午 03:...	Archive
7188xw.f4	60	f4	2015/9/1 下午 03:...	Archive
7188xw.ini	32	ini	2015/9/1 下午 03:...	Archive
autoexec.bat	11	bat	2015/9/1 下午 03:...	Archive
libtest.c	3374	c	2018/4/25 下午 05:...	Archive
LIBTEST.DSK	1893	DSK	2018/4/26 上午 09:...	Archive
LIBTEST.EXE	46394	EXE	2018/4/25 下午 05:...	Archive
LIBTEST.OBJ	3978	OBJ	2018/4/25 下午 05:...	Archive
libtest.prj	5805	prj	2018/4/26 上午 09:...	Archive

Look in: Disk A 412294 bytes available

No	File	Size	Modified
0	LIBTEST.EXE	46394	2018/4/25 下午 05:56

Run and select number 8: Disable Battery Protecting

```
=====
1>set DO ON or OFF
2>get DIO status, VBat
3>Sleep test.
4>Deep Sleep test.
5>Power On GSM
6>Power Off GSM
7>Enable Battery Protecting
8>Disable Battery Protecting
q>quit
=====
```

Enable/Disable Battery Protecting function

```
#include "MCU2LIB.h"
MCU2_BatteryProtect(0);
```